Vinteck *sas*

Di Guido Michetti & C.

Sede legale 10128 Torino Corso Vittorio Emanuele II, 123
Laboratorio : 10141 Torino via Limone 22
Tel. + 39 – 339 7626891 fax + 39 - 011 – 547712
RAEE Nr. IT08020000002500
(web) http://www.vinteck.com
(e-mail) info@vinteck.com

TB10 MKII
TB10 LT - TB5

True-bypass MIDI switching Pedalboard

User manual
Ed. 02   rev. 2

Vinteck

Thank you very much for purchase of TB10MKII, LT or TB5 pedalboard.
We really hope that it will be good friend for several ours of music. We ask you to write us by email at support@vinteck.com any problems or any ideas about hardware & software you think may be useful to us to built a better product.
We are anytime avalaible for any help you may need about how to use the TB10MKII, TB10LT or TB5

Keep on rockin' (blues, jazz, latin, fusion….)

Guido Michetti

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Contents

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1-instrument marking.

TB10MKII, TB10LT and TB5 got in back side a little tape non removable with serial and years of building.
It is very important to report this information in case of need of technical supply.

VINTECK TORINO – ITALY	MOD: SN: ▬▬▬▬
PWR: 230 V 50Hz 60 VA	CE 🗑

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2- generale wornings

- **please read the operator manual before starting the use of TB10 and follow the informations.**
- **Maintenance must be operated ALWAYS with the instrument not connected to power supply**

TB5 AND TB10LT are powered by an external 12 VAC. In no any case external power supply must be opened or dissasembled.

TB10MKII is power with 230 VAC cable. It is equipped with power switch and fuses protection. In no any case the power plug and switch must be disassembled.

Vinteck declines all responsibility for damages to persons, animals and things caused by the non-observance of such a provision.

 Warning

- Use of the machine by not properly trained staff.
- Improper use of the machine.
- Electric energy defects
- Repairing and changes made without authorisation.
- Use of not original or not specific for the model parts.
- Partial or total non-observance of the instructions.
- Use of the machine against national specific laws.
- Calamity and unusual events.

Remaining risk

Definition of remaining risk: "A danger not completely reducible from the designing and the safety devices, i.e. potential and not evident danger".

Since the productive aiming, the mechanical qualities and the presupposed proper usage we didn't find any remaining risks, both during the design and the tests.

Anyway, we recommend:

- to let only trained staff using the machine;
- to check that the machine is supplied by an grounded single-phase electrical cable and the plug has an effective earth terminal.

3- instructions manual

3.1 This manual is addressed to following subjects:
-   Owner;
-   Operators.
-   Technical builder

3.2 **Aiming of details in I.M.**

The manual contains a clear description of all technical specifications of the machine aimed at the transport, adjusting, maintenance, caution, location of remaining risks.

3.3 **Using limits of I.M.**

This manual can never replace an adequate experience of an operator and so it can only be a memorandum of the main operations. We specify, moreover. That I.M. mirrors the technical data at the moment of the purchase of the machine and that the manufacturer has the right to bring up-to-date I.M. and machines without conform I.M. and previous models.

3.4 **How to keep this I.M.**

The operating instruction manual has to be kept in perfect state and has to be always available for consultation. It has to follow the machine in case of transfer of property. It has to be kept until the demolition of the machine itself,

To order the up-to-date versions of I.M. and for any further information, please contact VINTECK SAS or the nearest VINTECK SAS dealer. We will be pleased to receive your suggestions to improve our quality.

Note for the use of this machine in a foreign country: contingent laws and restrictions in place for this kind of machine in the Country where it is used have to be respected also in the case are not mentioned in this manual.

New updated release of the manual will be avalable on www.vinteck.com

4- TB10MKII, TB10LT and TB5 : technical description

The TB10KMII and TB5 are pedalboards able to manage pedal effects intrue bypassmode. Allows to activate and deactivate 10 or 5 pedal effect (or sequence of pedals) in single or matched mode in total programmable system.

TB10KMII and TB5 born to solve the problems of managing the pedal effects:

- Keep the signal true a long pedal effects chain
- Easily manage the sound combination without the need of fast activation of several pedal effects (no tip-tap dance!!!)
- Supply the 9or 18 volt power for the pedals, really single filtered.
- Allow to manage the non midi amps channel change in the same time
- Allow to manage MIDI multieffects in the same time
- By driver by an external midi device (as a sequencer, in ex.)

TB10MKII, TB10LT TECHNICAL FEATURES

10 loop True bypass (send/return) made by silver gold plated contact relays.
4 switch per (p.es) for amps channel change, chained to pulsants 1-4
Extra Send return loop betwwen loops 3 and 4, 5 and 6, 8 and 9 for amps serial send/return
IN true bypass (to be used only with external buffer or wireless system).
IN buffer with direct out (to be used as well in loop with IN true-bypass – OUT buffer)
Direct OUT (dicet connection with amps)
A/B OUT programmable
10 buttons for direct activation of loops,with status leds.
5 programm change butons (1-5; 6-10) Drive the combination of loops and MIDI Program Change. With status led.
2 buttons UP/DOWN MIDI banks (1-5, 6-10, 11-15, 16-20, 21-25, etc.)
For channel midi change end switch function selection.
Display interface , three digits for indication of program change status

 TB10MKII ONLY Power supply for stomp boxes, 8 out x 9 volt single filtered 1A;secondo group of 5 out x 9 volt, totally galvanically insulated fron first group, 1A, and 2 x18 volt OUT galvanically insulated fron the 2)volts groups, 0,8 A

TB10MKII Power supply: 230 50Hf. Fuses protection with 2 x 1A delayed fuses.
TB10LT external power supply 12 Vac, 1,6 A
Heavy duty metal structure.
TB10MKII Dimensions 451x210 Weight 4,5Kg
TB10LT Dimensions 45X 170 WEIGHT 3,3 kG
Two scrwed holes m4 on base, for fixing on flight case.

TB5 TECHNICAL FEATURES

5 loop True bypass (send/return) made by silver gold plated contact relays.
4 switch per (p.es) for amps channel change, chained to pulsants 1-4
Extra Send return loop betwwen loops 3 and 4, for amps serial send/return
IN true bypass (to be used only with external buffer or wireless system).
IN buffer with direct out (to be used as well in loop with IN true-bypass – OUT buffer)
Direct OUT (dicet connection with amps)
A/B OUT programmable
5buttons for direct activation of loops,with status leds.
5 programm change butons (1-5; 6-10) Drive the combination of loops and MIDI Program Change. With status led.
2 buttons UP/DOWN MIDI banks (1-5, 6-10, 11-15, 16-20, 21-25, etc.)
For channel midi change end switch function selection.
Display interface , three digits for indication of program change status

Power supply for stomp boxes, 8 out x 9 volt single filtered 1A;

Power supply: 12 VAC external power supply 40VA.
Heavy duty metal structure.
Dimensions 451x125 Weight 4,5Kg

5- installation and connections (wiring)
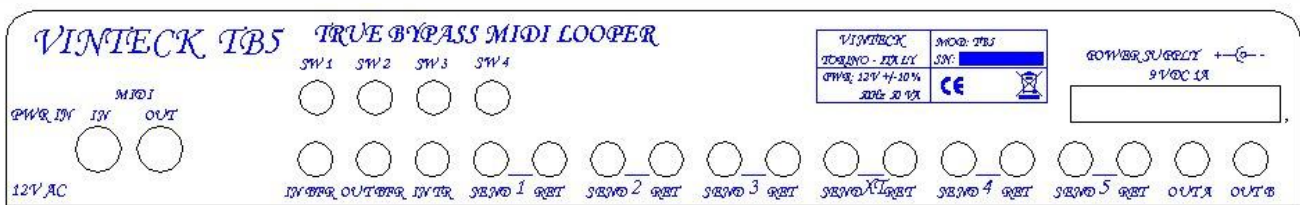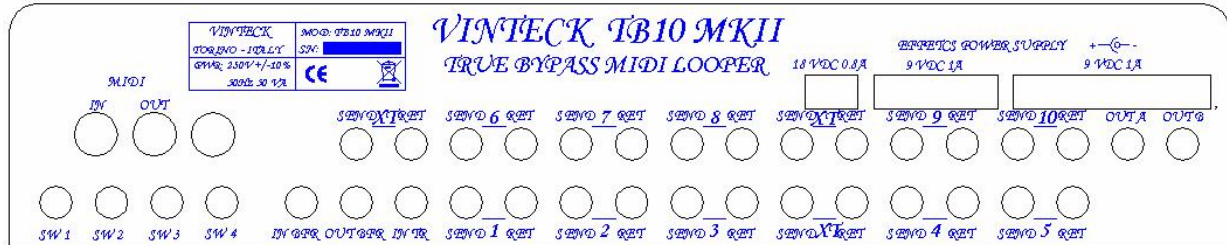
All connections are on TB10 back.
- AC IN   Power supply IN. Use only original power supply.
- IN BFR   Signal IN with buffer. Connect the guitar or bass here.
                DO NOT insert preamplified signal. Device may be dameged.
                It is raccomendend do no insert buffered signal. Use the true bypass IN.
- IN TRUE   In true bypass. Any kind ofsigna may be inserted. (preamplified, bufefred)
- OUT BFR   Buffered sugnak OUT. May be used as loop with inTrue (for example to insert a tuner)
- LOOP1-10   loops. Driver by buttons 1 to 10 (1-5 for TB5)
        SND   Out signal, to stompbox IN
        RTN   In signal, back from OUT of stomp box.

- EXT LOOP   Serial loop. To be used for always on stomp box (es reverb) or to connect the amps serial
                loopand use loop 10 for premaplified signal.
        SND   Out signal
        RTN   IN back signal
- OUT A   Out signal to amp (or to return in case EXTLOOP with amp send/return)
- OUT B   Second amp out. Or tuner out. To be programmed
- MIDI IN   MIDI in signal (form external pedalboard or sequencer)
- MIDI OUT   MIDI,send
- SWITCH 1-4   NA switch . Close ground on hot of 6,3mm mono jack. To drive amps channel change, May be
                used as tap tempo. Drived by button 1 or by a program change.
- POWER
  SUPPLY
  9Vdc   8 plug to supply 9 volts stomp boxes. Positive voltage on external circle. Max power 1000 mA
- POWER
  SUPPLY
  9Vdc   5 plug to supply 9 volts stomp boxes. Positive voltage on external circle. Max power 1000 mA

POWER
  SUPPLY
  18Vdc   2 plug to supply 12 volts stomp boxes. Positive voltage on external circle. Max power 500mA

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PEDALBOARD
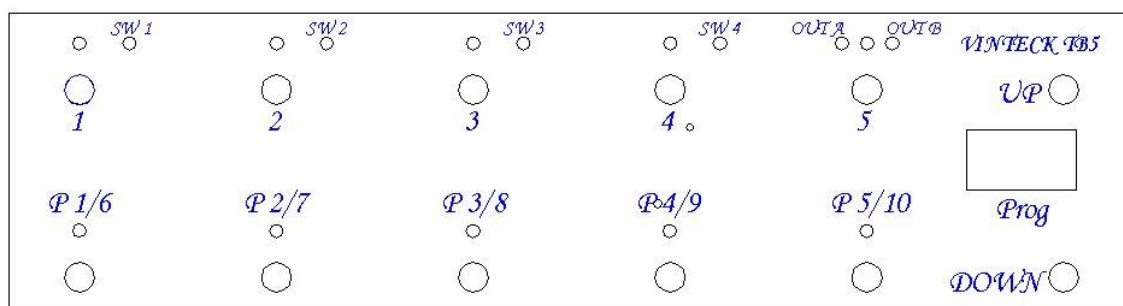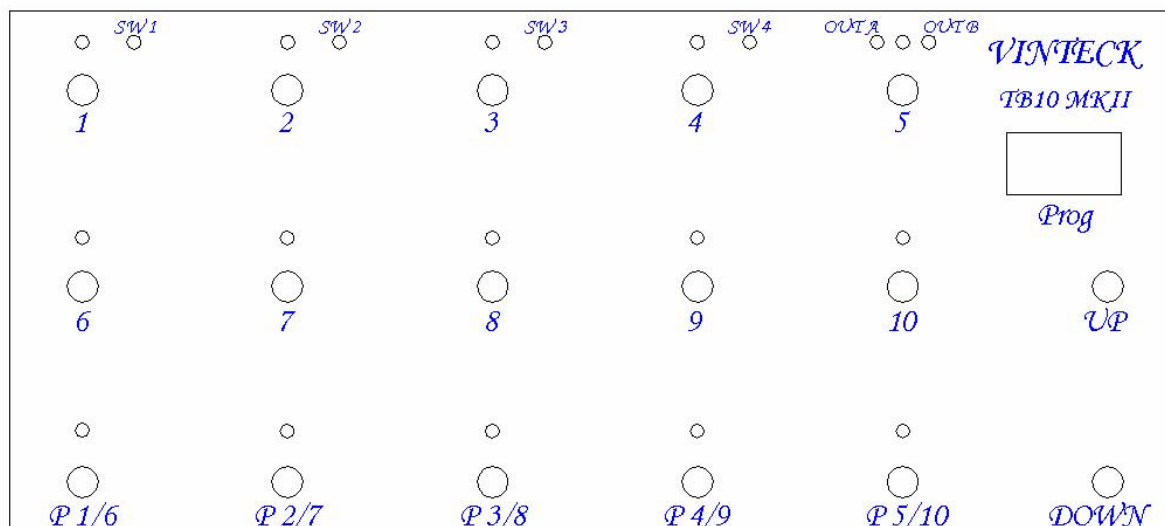
- Button 1   Activation of loop 1 and/or swicth 1 if activated.
                 Red led indicate status of loop 1, green led S1 indicate status of switch 1
- Button 2   Activation of loop 2 and/or swicth 2 if activated.
                  Red led indicate status of loop 2, green led S2 indicate status of switch 2
- Button 3   Activation of loop 3 and/or swicth 3 if activated.
                  Red led indicate status of loop 3, green led S3 indicate status of switch 3
- Button 4   Activation of loop 4. and/or swicth 4 if activated.
                  Red led indicate status of loop 3, green led S3 indicate status of switch 3
- Button 5   Activation of loop 5. Red led indicate status
- Button 6   Activation of loop 6. Red led indicate status.
- Button 7   Activation of loop 7. Red led indicate status.
- Button 8   Activation of loop 8. Red led indicate status
- Button 9   Activation of loop 9. Red led indicate status.
- Button 10   Activation of loop 10. Red led indicate status
- Button P1/6   Activation/programming of program change 1-6-11-15 etc.
- Button P2/7   Activation/programming of program change 2-7-12-17 etc.
- Button P3/8   Activation/programming of program change 3-8-13-18 etc..
- Button P4/9   Activation/programming of program change 4-9- 14-19 etc..
- Button P5/10   Activation/programming of program change 5-10-15-20 etc..
- Button UP   Atctivation of banco change UP – activation MIDI channel functions
- Button DOWN Atctivation of banco change DOWN / programming of button 1-3 functions.
- Display prg –   Interface for program ch'ange and programmino functions.

WIRING AND CONNECTIONS EXAMPLES

<u>**IMPORTANT NOTE: TO AVOID RISK ON GROUND NOISE THE TB10MKII MUST BE CONNECTED TO THE SAME SOCKET OF AMPLIFIER.**</u>

TB5 must be powerd with original power supply only.
Insert the power supply cord in his plug. When powered the TB5 is active.
TB10MKII is powered with 230VAC 50Hz. (115 FOR us) Switch and fuses are on left side.
**WORNING : never cut the wire of 220/12VAC power supply.**
         Never open the TB5 power supply. 220VAC inside when connectend to 220 plug.
Vinteck sas do not have any responsibility in case of damage to people, animals or objects in caseof non respectof this point. No worranty will be applied if power supply unit is disassembled or modified. Never disassembly the power switch of TB10MKII. No worranty will be applied ifswitch power supply group is disassembled or modified.

TB10 allow several way to connect to systems. You can see some example.
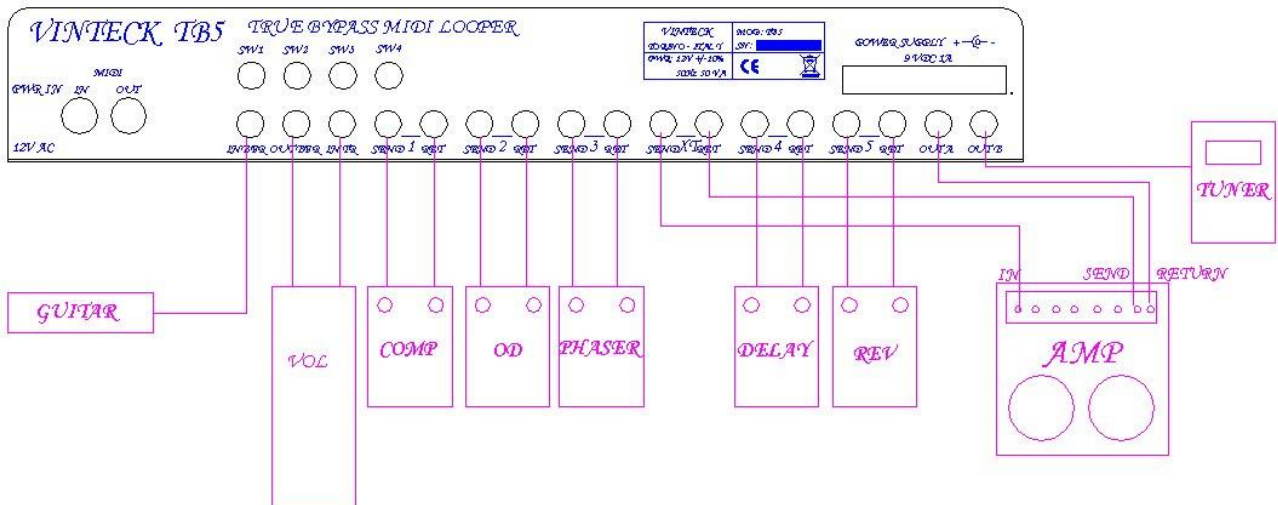
**Example 1.**
5 stomps chain and out to amp.
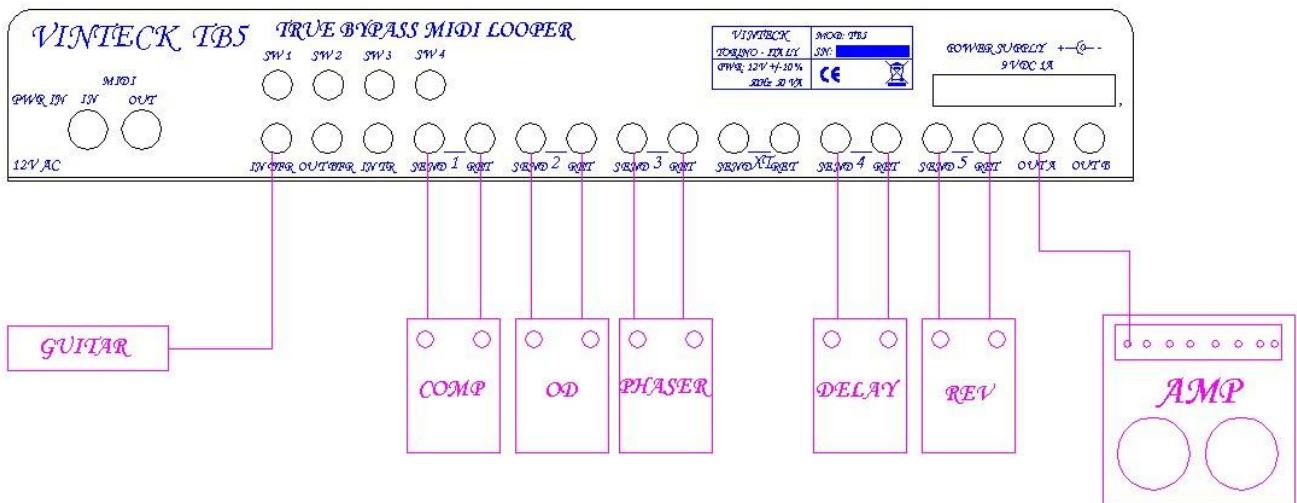
Example 2
Chain of 5 stomps. Volume in buffer and then to True IN.
Volume pedal in Ext loop. Note: volume must be low impedance (25Kohm max) to do not have problems with buffered signal. 3 stomps in front of amps, 2 in send/return. Tuner in B out for silent tunings.

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Example 3

Chain of 10 pedals. % in front of amp, 5 in send/return. Tuner in B out for silent tunings. Volume in buffer out/return.
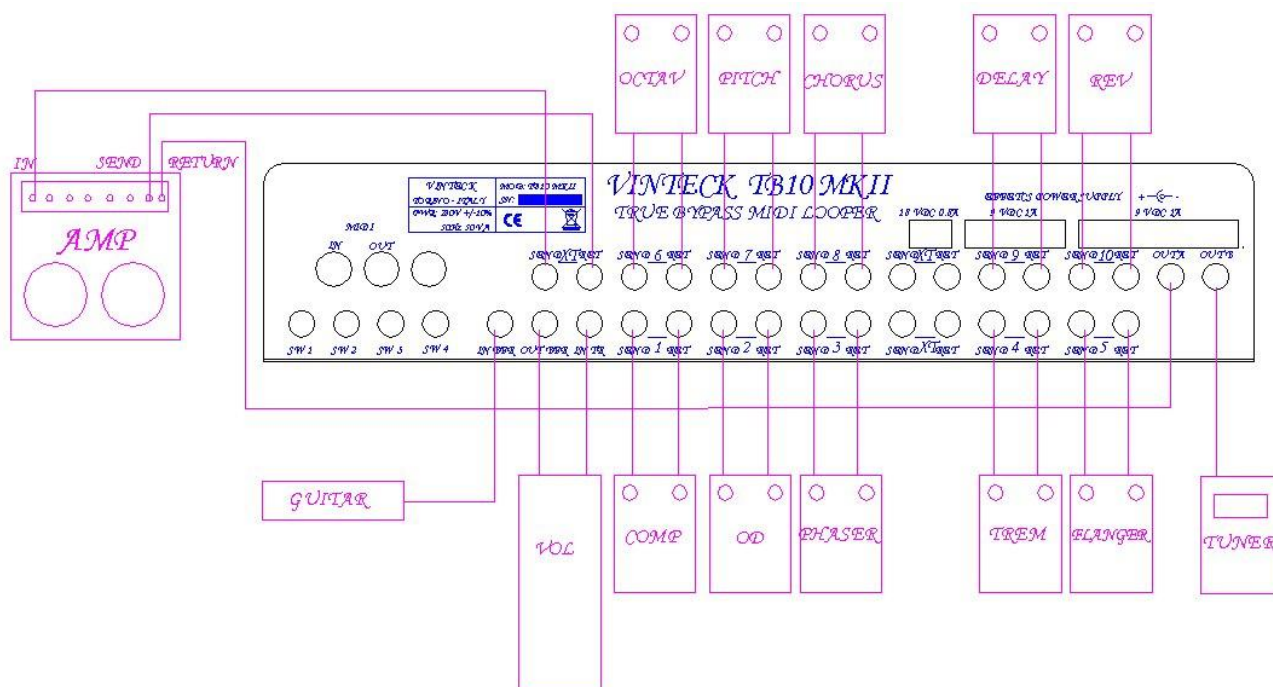
6- PROGRAMMING

DISPLAY OF PROGRAMS

Number of avalable programs is 120.
Backs of programs are in blocks of 5. 1-5, 6-10, 11-15 ... 95-100
The3 digit display show the programma on while. 1-100.
Duringthe bank change digits flash showing the corrispondenced number of upper or lower bank (es.11 UP shows 16, then 21 etc.) until when one program button is pressed (in ex 7 for 27).
If using up and down you come back to origina bank the display stops to flash.

When in programming mode the 3 dots of display will appare.

FACTORY PRESET
No factory preset are programmed.

DIRECT ACTIVATION OF LOOPS
Each loop is activeted by his corrisponded button.
When a button is pressed the loop is activated.
When pressed again the loopi is deactivated.

PROGRAMMING LOOPS COMBINATION
To program a combination of loops and switches, corresponding to a MIDI program change,
choose with UP or DOWN the desired bank (ex. 1-5 or 10-15).
Then press the program button (ex. Program 12 press button 2) andkepir pressed for 3 seconds.
On display the 3 dots of digits will be on. Now the unit is in programming mode.
Press now the buttons of loops to be inserted in the program (ex. 1 – 3 – 7)
Press again the same program button and the memorization is completed.
If any ather buttom is pressed instead of the program used to began the programming sequence the program will be not memorized.
Inside of a program,when recalled, it is possible in any moment to actbate or deactivate any loops.

DIRECT ACTIVATION OF THE 4 SWITCH

On factory preset switches are not active for direc access.
To active the switches it is necessary to programm them or to select the bottom in that way.

ACTIVATION OF A SWITCH WITHIN A PROGRAM CHANGE

When in programming mode (dots of display are on) press the buttons of a switch (1, 2, 3 or 4) and keep it pressed for 3 seconds. The corrisponding green led will switch on (S1, S2, S3 or S4) and red led will switch off, and loop as well.
If the loop must be active as well, shortly press button again.
Then close the programming mode with defined program button (ex 12).

PROGRAMMING OF A/B SWITCH

When in programming mode (dots of display are on) press the buttons 5 and keep it pressed for 3 seconds, The yellow led of OUT designed will be ON. When red led of loop is ON and not necessary press again the button to switch it off.
Press again the same program button and the memorization is completed.
If any ather buttom is pressed instead of the program used to began the programming sequence the program will be not memorized.

S-P (SWITCHS PROGRAMMING)

To activate the direct selection of switches with buttons press DOWN for3 seconds.
Display will show S1L.
Now is possible to select the desired switch pressing pressing the button (1, 2, 3 or 4)
Diplay will show S1L or S2L or S3L or S4L, following the selection made by switch.
Options are:
- S1L during operative function red led will be on. Button active loop only.
- S1S during operative function Green led on. Button active switch only
- S1G during operative function Green and red leds on. Button active loop and switch together.
- S1t during operative function Both leds off. Button does not active loop and switch works in one-shot function. A very short shot on, to be used in example for tap-time or for stand-by function of instrument whom needs this kind of segnal. Time of one-shot è di 1/10 of second. One shot function is not memorizable in program change.

When finished the selection press again DOWN to exit.

When assign of function is done, thereis possibility to change while programming the loops combination:
- If active function is "led red" the priorityis on loop.
- If active function is "green red" the priorityis on loop swicth
- If active function is both leds on no variations are allowed.
- If active function is both leds off (one-shot) itis possibile to assign the loop to aprogram ch'ange, but taptime is usable only from button, not from program ch'ange.

MIDI CHANNELS SELECTION

Selection of IN channels, out channels and set of start programchange (1-119 or 1-120) may be defined pressing for 3 seconds button UP
The 3 parameter come following the steps of button press.
The exit of session is at fourth pression of UP button.

IN CHANNELS

Press UP for 3 seconds.

After 3 seconds will appare on display a little "i" followed by numbers:

0 = all
1-16 = channel 1 -16

Press DOWN to change in sequence the channel frrm "all" to 1 to 16.

OUT CHANNELS

Following the previuos selection (UP for 3 seconds and IN CHANNELselectino) press one more time UP
Will appare a little "o" followed by a number (1-16) of MIDI in channel

Press DOWN to change in sequence the channel from 1 to 16.

PROGRAM CHANGE 0-119 : 1-120

Following the previuos selection (UP for 3 seconds and IN CHANNELselectino) press one more time UP (for the 2nd time) after "i" and "o" will appare a little "c" followed by (select the choosed one with DOWN button:
0= program change 0-119
1= program change 1-120

Pressing one more time UP the function will be closed.

NOTA: MIDI IN and MIDI OUT are in configuration "throw". Any segnal received by TB10MKII – TB5 will be transimtted from OUT even if is a command not used by TB10MKII – TB5 (in ex. a command on a channel not setted on TB10).

7-Spare parts

Codice	descrizione
TB10S7	Pulsant
TB10BF	Buffer integrated circuit
TB10MKIIFT	MIDI line protection
TB10MKIIMICRO	Main program processor
TB5PWSY	Alimentatore esterno TB5
TB10MKIICOM	Boards communications micro

8- warranty terms and conditions

TB10KMII, TB10LT and TB5 are covered of total warranty of 2 (two) years from purchase.

Warranty operation will be performed only at our factory in Torino.

Shipping cost are charged to customers
All operation and any spare parts are covered by warranty.

Warranty do not cover the folling cases:

- Uncured utilization
- Damage from transportations
- Repairing and changes made without autorization
- Athmosferic Events
- Incorrect use of instruments
- Power supplì not correct
- Use of not original spare parts
- Partial or total non-observance of the instructions;
- Use of the machine against national specific laws.;
- Calamity and unusual events.

9   support

Any informations about "how to use" or any technical problems may be send by email to:

support@vinteck.com

DECLARATION OF CONFORMITY

Application of Councl Directive(s):   89/336/EEC and 93/68/EEC

Standard(s) to which Conformity is Daclared   EN 55103-1, EN 55103-2 and 60062: 1998

Manufacturer   Vinteck SAS di Guido Michetti & C.
                      Corso Vittorio Emanuele II, 123
                      10128 Torino – ITALY
                      The equipment identified here conforms to
                      the Directive(s) and Standards specifed above

Type of equipment   Effects swithcing system

Model   TB10MKII, TB10LT, TB5

Data   september 2007

Vinteck sas
di Guido Michetti & C.
corso Vittorio Emanulele II 123
10128 Torino Italy

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